

## Product datasheet for **RG201266**

### **POLR2E (NM\_002695) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** POLR2E (NM\_002695) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** POLR2E  
**Synonyms:** hRPB25; hsRPB5; RPABC1; RPB5; XAP4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG201266 representing NM\_002695  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGACGAGGAGGAGACGTACCGGCTCTGGAAATCCGCAAGACCATCATGCAGCTGTGCCAGCACC  
GTGGCTATCTGGTGACCCAGGACGAGCTTGACCAGACCCTGGAGGAGTTCAAAGCCCAATTTGGGGACAA  
GCCGAGTGAGGGGCGCCGCGGCACGGACCTCACCGTCTGGTGGCCACAACGATGACCCACCGAC  
CAGATGTTTGTCTTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTGTACTGCCAGCGCA  
TGCAGGAGGAGAACATCACACGGCTCTCATCGTGGTGCAGCAGGCATGACACCCTCCGCAAGCAGTC  
CCTGGTCGACATGGCCCCAAGTACATCCTGGAGCAGTTTCTGCAGCAGGAGCTGCTCATCAACATCAGC  
GAGCACGAGCTAGTCCCTGAGCACGTCGTATGACCAAGGAGGAGGTGACAGAGCTGTGCCCGATATA  
AGCTCCGAGAGAACCAGCTGCCAGGATCCAGGCGGGGACCCTGTGGCGCCTACTTTGGGATAAAGCG  
TGGCAGGTGGTGAAGATCATCCGCCCCAGTGAGACGGCTGGCAGGTACATCACCTACCGCTGGTGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG201266 representing NM\_002695  
 Red=Cloning site Green=Tags(s)

MDDEEETYRLWKIRKTIIMQLCHDRGYLVTQDELDTLEEFKAQFGDKPSEGRPRRDLTVLVAHNDPTD  
QMFVFFPEEPKVGIKTIKVVYQRMQEENITRALIVVQQGMTPSAKQSLVDMAPKYILEQFLQPELLINIT  
EHELVPHEVVMTKEEVTELLARYKLRENQLPRIQAGDPVARYFGIKRGQVVKIIRPSETAGRYITYRLVQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**



- ACCN:** NM\_002695
- ORF Size:** 630 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
- OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
  5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
- RefSeq:** [NM\\_002695.4](#)
- RefSeq Size:** 1238 bp
- RefSeq ORF:** 633 bp
- Locus ID:** 5434
- UniProt ID:** [P19388](#)
- Cytogenetics:** 19p13.3

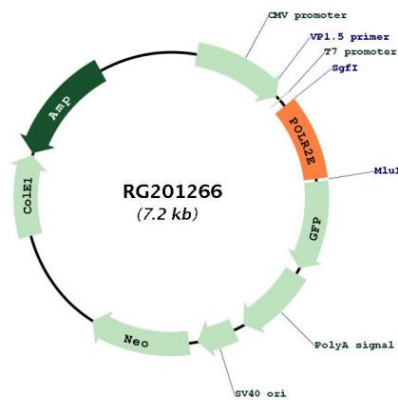
**Domains:** RNA\_pol\_Rpb5\_C, RNA\_pol\_Rpb5\_N

**Protein Families:** Transcription Factors

**Protein Pathways:** Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

**Gene Summary:** This gene encodes the fifth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit is shared by the other two DNA-directed RNA polymerases and is present in two-fold molar excess over the other polymerase subunits. An interaction between this subunit and a hepatitis virus transactivating protein has been demonstrated, suggesting that interaction between transcriptional activators and the polymerase can occur through this subunit. A pseudogene is located on chromosome 11. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]

**Product images:**



Circular map for RG201266